

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/001113

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ G01L3/14, G01L3/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ G01L3/14, G01L3/10Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2004
Kokai Jitsuyo Shinan Koho 1971-2004 Toroku Jitsuyo Shinan Koho 1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	JP 10-339678 A (Toyoda Automatic Loom Works, Ltd.), 22 December, 1998 (22.12.98), Full text; all drawings (Family: none)	1-2, 6-7 4
X A	JP 58-88631 A (Yotaro HATAMURA), 26 May, 1983 (26.05.83), Full text; all drawings & US 4485681 A Full text; all drawings	1-2, 6-7 3, 5

 Further documents are listed in the continuation of Box C. See patent family annex.

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- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
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Date of the actual completion of the international search 10 May, 2004 (10.05.04).	Date of mailing of the international search report 25 May, 2004 (25.05.04)
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	JP 2002-502760 A (S.N.R. ROULEMENTS), 29 January, 2002 (29.01.02), Par. Nos. [0030] to [0043]; Fig. 3 & US 6517113 B1 Column 4, line 53 to column 6, line 7; Fig. 3 & WO 99/39965 A1 & EP 1053163 A & FR 2774349 A & AU 2170999 A & BR 9909741 A	1-2, 6-7 3
A	JP 4-93628. A (Yotaro HATAMURA), 26 March, 1992 (26.03.92), Full text; all drawings (Family: none)	1-7